

Davankov, A. B., Laufer, V. M. and others.
AN EXPERIMENT FOR EXTRACTING URANIUM
AND OTHER ELEMENTS FROM WATERS OF THE
ATLANTIC OCEAN. June 62, 13 refs.
Order from PS \$130

PS CR-4026

Trans. of Izv[estiya] V[ysshikh] U[chebnykh]
Zavedeni]. Izhnaya Metallurgiya (USSR) 1962
[v. 5] no. 2, p. 115-123.

DESCRIPTORS: *Uranium, Chemical elements,
*Water filters, Sea water, Atlantic Ocean, Solvent
extraction.

62-17970

- I. Davankov, A. B.
- II. Laufer, V. M.
- III. PS CR-4026
- IV. Primary Sources, New York

(Engineering-Chemical, TT, v. 8, no. 4)

Office of Technical Services

12 VUZ khim i khim Tekh

K. B. Yatsimirskiy

Study of the absorption spectra and determination of the dissociation constants of molybdic acid.

*RUSSIAN, Izvestiya VUZ. Khimiya i khimicheskaya
tekhnologiya, No 1, 1958, pp 53-58*

C.E. trans 5897

sept 72

An Improved Method of Synthesis of
Triethylaluminum, by S. B. Kryukov, et al.
UNCL

RUSSIAN, per, Iz Vysshikh Uchebnykh Zavedeniy --
Khim i Khim Tekh, No 1, 1958, pp 85-93.

SLA 57-2000
DSIR LLU RTS 1268

(LL Os. Os.)

RTS 75 2 10

Sci - Chem
Nov 59

100,768

The Kinetics of Menshutkin ~~REACT~~ Reactions in Non-Aqueous Solvents, by N. K. Vmrob'yev, G. P. Titova.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Khim i Khimich Tekh, No 2, 1958, pp 17-24.

NLL RIB 2020

075 22-12-11

Sci - Chem
Jun 62

201, 012

Mazurin, O. V. and Levin, A. S.
THE PROBLEM OF THE CHOICE OF A RATIONAL
METHOD OF THE MEASUREMENT OF THE ELEC-
TRIC CONDUCTIVITY OF GLASSES (K Voprosu o
Vybere Rational'noi Metodiki Izmereniya Elektro-
provodnosti Stekol). [1963] [15p] (foreign text included)
4refs

Order from OTS, SLA, or ETC \$1.60 TT-64-10581

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii.
Khimiya i Khimicheskaya Tekhnologiya (USSR) 1958,
no. 2, p. 142-146. (Abstract available)

DESCRIPTORS: *Measuring devices (Electrical and
Electronic), *Electrical conductance, *Glass,
Resistance (Electrical), Electrodes, Graphite, Test
methods.

The resistivity of glasses was measured with graphite
electrodes (at high resistances D. C. was used, and at
(Materials--Ceramics, TT, v. 11, no. 10) (over)

TT-64-10581

I. Mazurin, O. V.
II. Levin, A. S.

Office of Technical Services

The Thermal Stability of Strongly Acidic Sulphated Cationites. II. On the Influence of Thermal Treatment on Some Physico-Chemical Properties of the Hydrogen Form of Cationites KU-1 and KU-2, by N. G. Polyanskiy. UNCL

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Khim i Khim Tekh, No 2, 1958, pp 152-159.

DSIR LIJ M.858

OTS 60-13 664

Sci - Chem

(loan)

111,145

Mar 60

Investigation of the Thermomechanical
Properties of Stereo-Regular Polypropylene,
by Z. A. Rogovin, B. M. Kovarskaya. URCL

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Khim i
Khim Tekh, No 2, 1958, pp 301-364.

DSIR LLJ H.827

(loan)

111,132

Sci - Chem

Mar 60

Mazurin, O. V.
SIMILARITY OF THE DEPENDENCE OF ELECTRO-
CONDUCTIVITY AND VISCOSITY OF GLASSES (O
Skhodstve Temperaturnykh Zavisimostei Elektro-
provodnosti i Vyzkosti Stekol). [1962] [14]p. (foreign
text included) 19 refs.
Order from DTS or SLA \$1.60

62-16679

Trans. of [Izvestiya Vysshikh Uchebnykh Zavedenii].
Khim[iya] i Khim[icheskaya] Tekhnol[ogiya] (USSR)
1958, no. 3, p. 136-141.

DESCRIPTORS: *Glass, Electrical conductance, Vis-
cosity, Statistical functions.

All the experimental material found in the world litera-
ture indicates that the following relationship is typical
for glasses: $\eta^n - \eta = C$ where η and C are con-
stants. Study of this relationship makes it possible for
us to draw certain conclusions on energy correlations in
(Materials--Ceramics, TT, v. 9, no. 2) (over)

62-16679

I. Mazurin, O. V.

Office of Technical Services

On ~~the~~ Multinuclear Chlorides of Niobium and
Tantalum, by E. I. Krylov, 6 pp.

RUSSIAN, per, Iz Vysshikh Ucheb, Zaved Khim i
Khim Tekh, No 4, 1958, pp 676-679.

AEC HP Tr-543

Sci - Chem
May 61

150,367

Sodium Phenylacetate as an ~~XXXX~~ Inhibitor of
Corrosion of Metals in Neutral Media, by
E. V. Bogatyreva, S. A. Balezin, 8 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Khim i
Khim Tekhnol, Vol II, No 1, 1959, pp 25-29.

ATS-RJ-2731
ATS-4837R

Sci

170,090

Oct 61

61-15220

Spryskov, A. A. and Potapova, T. I.
STUDIES IN SULPHONATION. I. DETERMINATION
OF THE ISOMERS OF TOLUENEDISULPHONIC
ACIDS (Izucheniye Reaktivov Sul'firovaniya. I. Opre-
deleniye izomernykh Disul'fokislot Toluola). Nov 60
[7]p. 6 refs. RTS-1578.
Order from LC or SLA m\$1.80, ph\$1.80 61-15220

Trans. of Izvestiya Vysshikh Uchebnykh
Zavedeniy. Khimiya i Khimicheskaya Tekhnologiya
(USSR) 1959 (v. 2) no. 1, p. 41-45.

Semi-quantitative solubility data are given for the
salts of 18 amines with 2,4-, 2,5-, 2,6- and 3,5-
toluenedisulphonic acids. The melting point diagram
of the binary system 2,4- and 3,5-toluenedisulphonic
chlorides is given. A quantitative method for the de-
termination of 2,4-, 2,5-, 2,6- and 3,5-toluene-
disulphonic acids mixed with one another and with
sulphuric acid has been developed. The maximum
error in the content of any isomer is about 1-1.5%
of the total disulphonic acids. (Author)

1. Toluene--Chemical reactions
2. Sulfonic acids--Determination
3. Title: Sulphonation
1. Spryskov, A. A.
- II. Potapova, T. I.
- III. Title: Determination...
- IV. RTS-1578
- V. Department of Scientific
and Industrial Research
(Gr. Brit.)

148,733

Office of Technical Services
(Chemistry--Analytical,
TT, v. 5, no. 7)

63-18917

Terent'ev, A. P., Fedoseev, P. N., and Ivashova,
N. P.

THE USE OF ALKALINE EARTH METALS IN
ORGANIC ELEMENTAL ANALYSIS. 21 Jun 63 [9p] 17 refs.
Order from OTS or SLA \$1.10 63-18917

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii.
Khimiya i Khimicheskaya Tekhnologiya (USSR)
1959, v. 2, no. 1, p. 54-58.

DESCRIPTORS: Chemical analysis, Organic compounds,
*Nitrogen, *Sulfur, *Halogens, *Carbon, *Calcium,
*Magnesium, *Alkaline earth metals, Quantitative
analysis.

The purpose of the paper is to describe methods for the
qualitative determination of nitrogen, sulfur, and
halogens in organic compounds by heating with metallic
magnesium or calcium, and for the determination of
(Chemistry--Analytical, TT, v. 10, no. 10) (over)

I. Terent'ev, A. P.
II. Fedoseev, P. N.
III. Ivashova, N. P.

Office of Technical Services

Uchnovskii, G. L. and Chernobai, A. V.
POLYMERIZATION OF CYCLOPENTADIENE. [1961]

bp 40 refs.

Order from OTS or SLO \$1.10

61-20640

Trans. of Izvestiya Vysshikh Uchebnykh Zavedeni
Khimicheskaya Tekhnologiya (USSR) 1959,
2, no. 1, pp. 1-10.

DESCRIPTION: Cyclopentadiene, Pentadienes, *Poly-
merization, Boron compounds, Fluorides, Catalysts,
Catalysis, Polymers.

It is established that the most effective catalysts for
the polymerization of cyclopentadiene are the complexes
of boron trifluoride with organic substances (alcohols,
simple and complex ethers). The effect of various
factors (the concentration of the catalyst and monomer,
nature of the solvents) on the polymerization process
(Chemistry--Organic, IT, v. 7, no. 3) (over)

61-20640

I. Uchnovskii, G. L.
II. Chernobai, A. V.

Office of Technical Services

63-27537

Ermilov, P. I.
DIE ANWENDUNG NICHT IONOGENER NETZMITTEL
ZUR ENTSTÄUBUNG VON GASEN (The Application of
Non-Ionogenic Wetting Agents for Dust Exhaust of
Gases). 17p.
Order from TIB \$2.70

Trans. in German of Izvestiya Vysshikh Uchebnykh
Zavedenií. Khimiya. Khimicheskaya Tekhnologiya
(USSR) 1959, v. 2, no. 1, p. 134-140.

DESCRIPTORS: Ions, *Wetting agents, Particles,
*Gases, Cleaning.

(Engineering-Chemical, TT, v. 10, no. 8)

I. Ermilov, P. I.
II. Technische Informations-
bibliothek, Hannover
(West Germany)

Office of Technical Services

Affinity of Bentonite Treated With Amines for
Water, by R. A. Nikhalyuk, O. D. Kusilenko.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved SSSR, Khim i
Khim Tekh, No 2, 1959, pp 196-199.

MCB A.1877

S.836

ALL 11. 3281

Sci

Aug 61

List No 41

163,557

IZVESTIYA VYSSHIKH UCHENNYKH ZAVEDENI. KHIMIYA I
KHIMICHESKAYA TEKNOLOGIYA

1959 V2 P231-237

AEC-TR-6939 (=)

1963 V6 N3 P498-503

MTS-5570 (MLL=)

1964 V7 P665-668

70-13521-07A (=)

1964 V7 N1 P169-170

70-11861-21D (=)

ORDER FROM NTC

Thermal Decomposition of Certain Nitrates, by M. M.
Karavayev, I. P. Kirillov, 6 pp.
RUSSIAN, per, Izvest Vysshikh Ucheb Zaved, Khim i
Khim Tekh, Vol II, No 2, 1959, pp 231-237. 9218742

AERJ3-Harwell-Tr-960

Sci-Nucl Sci
Feb 64

NLL (LOAN) AF: 9091.9 1963

248,920

P 911201768-J AEC-TR-6939

July 1968

The Part Played by Manganese in the Electrolytic
Deposition of Zinc, by R. S. Vakhidov, G. Z.
Kir'yakov.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Khim i
Khim Tekh, No 2, 1959, pp 238-243.

DSIR LLU RTS 1626

OTS 61-15256

169, 840

Sci - Chem

Oct 61

The Solubility of Inorganic Salts in Organic Solvents and in Their Mixtures with Water, by I. S. Pakhtashev, B. A. Voznesenskiy, 10 pp.

RUSSIAN, per, Izv Vysshikh Ucheb Zaved Khim i Khim Tekhnol, No 2, 1959, pp 827-833.

ABC-7r-5574

Sci - Chem

Jun 63

232,404

Photocolorimetric Determination of Antimony in
Zinc Electrolytes and Alloys, by N. N. Kovalenko,
N. P. Moricheva.

RUSSIAN, per, Iz Vysokikh Ucheb Zaved Khim i Khim
Tekh, Vol II, No 3, 1959, pp 322-327.

NLL RTS 2128

Sci - ex Phys
Mar 63

226,646

Thermodynamic Properties of Mercury Compounds, by
P. G. Maslov,

RUSSIAN, for, Iz Vysshykh Ucheb Zavedeni Khim i
Khim Tekhnol, No 3, 1959, PP 335-339.

AEC Tr-4013

Sci - Chem

May 60

117,369

Borisov, A. F. and Dertev, N. K.
ELECTROCHEMICAL METHOD OF INVESTIGATING
THE BOILING PROCESS OF GLASS (Elektrokhimi-
cheskii Metod Issledovaniya Protsessa Varki Stekla).
[1962] 9p. (foreign text included) 8 refs.
Order from OTS or SLA \$1.10

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii.
Khimiya (Khimicheskaya Tekhnologiya (USSR) 1959,
v. 2, no. 3, p. 420-423.

DESCRIPTORS: *Glass, Melting, Electrochemistry,
Additives, Viscosity

(Materials--Ceramics, TT, v. 9, no. 7)

62-18900

I. Borisov, A. F.
II. Dertev, N. K.

Office of Technical Services

Zanemonets, N. A. and Fogel', V. O.
 A NEW METHOD OF DETERMINATION OF THE
 HEAT EFFECTS OF THE VULCANIZATION RE-
 ACTION OF RUBBERS, tr. by G. F. Hill. 20 Jan 62
 [12]p. 8 refs. AOMC Trans. nr 5-62.
 Order from OTS or SLA \$1.60

62-15513

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii,
 Khimiya i Khimicheskaya Tekhnologiya (USSR) 1959
 [v. 2] no. 3, p. 437-442.

DESCRIPTORS: *Thermodynamics, *Vulcanization,
 *Rubber, Heat, Kinetic theory, Combustion, Thermal
 conductivity, Calorimetry.

A new method is proposed for the determination of the
 heat effects of the vulcanization reaction by means of
 composing heat balances on the basis of thermo-
 graphic analyses (method of thermographic balances).
 The new method was verified in the investigation of
 (Materials--Rubber, TT, v. 8, no. 10)
 (over)

62-15513

- I. Zanemonets, N. A.
- II. Fogel', V. O.
- III. AOMC Trans-5-62
- IV. Army Ordnance Missile Com-
 mand, Redstone Arsenal, Ala.

Office of Technical Services

Thermal Decomposition of Coal Tar Pitchess,
by A. I. Chistyakov. UNCL

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Khim i
Khim Tekh, No 3, 1959, pp 449-453.

DSIR LIU M.1326

(loan)

Sci - Fuels

Apr 60

112,695

Sullivanova, N. M. and Sneider, V. A.
THE PHYSICO-CHEMICAL PROPERTIES OF SELE-
NATES. V. THE HEAT OF FORMATION OF CAL-
CIUM SELENATE FROM THE ELEMENTS. [1961]
[7]p. 20 refs.

Order from OTS or SLA \$1.10

61-27877

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii.
Kimiya i Khimicheskaya Tekhnologiya (USSR) 1959,
v. 2, no. 4, p. 475-479.

DESCRIPTORS: *Heat of formation, *Heat of reaction,
*Heat of solution, Silver compounds, Nitrates, Cal-
cium compounds, *Selenates, Water, Thermochemistry.

The heat of the reaction between calcium selenate and a
silver nitrate solution was determined and the integral
heat of solution of calcium selenate dihydrate in water
(1:1600) was measured under standard conditions. The
(Chemistry--Physical, TI, v. 6, no. 10) (over)

61-27877

- I. Sullivanova, N. M.
- II. Sneider, V. A.
- III. Title: Heat ...
- IV. Translations, New York

61-27877

Office of Technical Services

Thermal and Tensimetric Study of the System
 $\text{NbCl}_5\text{-FeCl}_3\text{-KNO}_3$, by I. S. Morozov, B. G. Korshunov,
5 pp.

RUSSIAN, per, Iz Vyschikh Ucheb Zaved, Khim i Khim
Tekh, Vol II, No 4, 1959, pp 485-489.

ATS-27142R

ATS/RJ-2553

190,250

Sci

Apr 62

Vol IV, No 6

Maslov, P. G. and Maslov, Yu. P.
THE THERMODYNAMIC PROPERTIES OF COM-
POUNDS CONTAINING LANTHANITES. [1961] [7]p.
11 refs.

Order from OTS or SLA \$1.10

61-27885

Trans. of [Investiya Vysshikh Uchebnykh Zavedeni].
Khimiya i Khimicheskaya Tekhnologiya (USSR)
[1959] v. 2, no. 4, p. 516-521.

DESCRIPTORS: Thermodynamics, Crystals, Crystal
structure, Solubility, Entropy, Heat of formation,
Lanthanides, Halides, Rare earth compounds,
Ammonio compounds.

Thermodynamic properties were calculated for 95
mixed lanthanides in the crystalline state and for
the standard solution. A general relationship was found
for determining the thermodynamic characteristics for
a series of families of crystalline lanthanides of the
(Physics-Thermodynamics, TT, v. 6, no. 11) (over)

61-27885

I. Maslov, P. G.
II. Maslov, Yu. P.
III. Translations, New York

188735

Office of Technical Services

Investigation of the Interaction of Minerals
Containing Alkali Elements With Salts and
Oxides in Sintering and Melting Processes. II.
Thermographical Investigation of the Interaction
Process of Pollucite With Calcium Oxide and
Calcium Chloride, by V. Ye. Plyushchev, I. V.
Shakhno.

RUSSIAN, per, Iz Vyssh Ucheb Zaved, Khim i Khim
Tekhnol, Vol II, No 4, 1959, pp 582-588.

SLA 60-17546

Dept of Interior
TN7, E57, No 329

SCI - Chemistry
Oct 60

128,662

Selivanova, N. M. and Schneider, V. A.
THE PHYSIOCHEMICAL PROPERTIES OF
SELENATES. VI. THE SOLUBILITY OF CALCIUM
SELENATE IN WATER AT DIFFERENT TEMPERA-
TURES. [1961] [8] p. 23 refs.
Order from OTS or SIA \$1.10

61-27884

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii.
Khimiya i Khimicheskaya Tekhnologiya (USSR) 1959
[v. 2] no. 5, p. 651-656.

DESCRIPTORS: Solubility, Water, *Heat of solution,
Entropy, Thermodynamics, Thermochemistry,
Calcium compounds, *Selenates.

The polytherm of the solubility of $\text{CaSeO}_4 \cdot 2\text{H}_2\text{O}$ in
water was investigated from the cryohydrate point to
the boiling point of the saturated solution. The experi-
mental data obtained were used for calculating the dif-
ferential and integral heats of solution of this salt. The
(Chemistry--Physical, TT, v. 6, no. 10) (over)

61-27884

I. Selivanova, N. M.
II. Schneider, V. A.
III. Title: Solubility...
IV. Translations, New York

7575

Office of Technical Services

CATALYTIC EFFECTS OF QUATERNARY AMMONIUM
SALTS ON THE RATES OF MENSHTUKINTYPE REACTIONS
IN ORGANIC SOLVENTS, BY N. K. VOROB'YEV,
G. F. TITOVA.

RUSSIAN, PER, IZ VYSSHIKH UCHEB ZAVED:
KHIM I KHIMICH TEKH, VOL 11, 1959, PP 635-692.

NLL RTS 2021

SCI - CHEM

JUN 62

199,096

63-20253

Tyuraev, I. Ya.

DEVELOPMENT OF THE BASES FOR A PROCESS OF
INDUSTRIAL DEHYDROGENATION OF PARAFFIN
HYDROCARBONS. [1963] [9p] 10refs

Order from OTS or SLA \$1.10

63-20253

I. Tyuraev, I. Ya.

Trans. of [zvestiya Vysshikh Uchebnykh Zavedenii.
Khimiya] Khimicheskaya Tekhnologiya [USSR]
1959, v. 2 [no. 5] p. 797-802.

DESCRIPTORS: *Towers (Chemistry), Design, Hydro-
carbons, Alkanes, *Propanes, *Butanes, *Dehydrogena-
tion, Reaction kinetics, Alkenes, *Propenes, *Butenes,
Production, *Catalysts, Fluidized solids.

Constants in equations for n-butane dehydrogenation
rate and constant in equation for kinetical cracking,
which is a side reaction, were determined with one of
the industrial catalysts. The effect of reactor apparatus
type on the process for dehydrogenation of paraffin
(Engineering-Chemical, TT, v. 10, no. 12) (over)

Office of Technical Services

Solubility of Inorganic Salts in Organic Solvents and
Their Mixtures With Water, by I. S. Pekhtashev, L. A.
Voznesenskiy.

RUSSIAN, per, Izvestiya Vysshykh Uchebnykh Zavedniy,
Khim i Khim, Tekhnologiya, Vol II, 1959, pp 827-833.

*AEC

Sci - Chem

Oct 62

Micromethods for Quantitative Determination
of Carbon, Hydrogen, and Nitrogen in
Organic Substances in Small Tubes Under
Vacuum, by T. N. Fedosayeva & T. E.
Chernysheva, 4 pp.

RUSSIAN, per, Iz Vysishikh Ucheb
Zaver Khim i Khim Tekhnol.,
Vol. 11, No 6, 1959, pp 889-903.

ATS-98243R-01 (87-1165E)

Sci
Feb 62

186, 808

Design of Packed Towers for Chemisorption
Conditions, by I. P. Slobodyansk,
A. G. Kasatkin, V. V. Kafurov, 6 pp.

RUSSIAN, per, In Vysishikh Ucheb Zaved
Khim i Khim Tekh, Vol II, No 6, 1959,
pp 956-961.

ATS-73M43R
ATE/2468

Sol
Vol IV, No 9
Mar 62

187, 023

(NY-3107).

First All-Union Conference of Higher Educational
Institutions on Radiochemistry of the USSR, by
A. V. Kapitskiy, An. N. Nesmeyanov, 3 pp.

RUSSIAN, pp. In Vyschikh Ucheb Zaved, Khim. i
Khim. Tekh., Vol. II, No 6, 1959, pp 974-977.

JPRS 2807

118,680

Sect. - Chem
Jun 50

Compressibility of Aqueous Solutions of Non-
Electrolytes, by I. V. Persianova, V. V. Tarasov.
RUSSIAN, per, Iz VUZ Khimiya i Khim Tekh,
Vol III, No 1, 1960, pp 4-7.
NRC C-4977

Apr 67

323,078

Usmanov, A. G. and Berezhnoi, A. N.
GENERALIZATION OF EXPERIMENTAL DATA ON
THERMAL DIFFUSION OF GASES, tr. by
B. W. Kuvshinov. 6 Sep 61, 7p. 8 refs. APL/JHU
TG 230-T248.

Order from OTS \$0.50

61-31627

Trans. of Lyubskaya Vysshikh Uchebnykh Zavedenii.
Khimiya i Khimicheskaya Tekhnologiya (USSR) 1960
v. 3] no. 1, p. 8-13.

DESCRIPTORS: *Experimental data, *Thermal dif-
fusion, *Gas diffusion, Gases, Diffusion, Separation,
Mixtures, Chemical analysis, Temperature, Heat
transfer, Thermodynamics, Thermochemistry.

The relative separation of a binary gas mixture
during thermal diffusion is described by the equation
(Chemistry-Physical, IT, v. 7, no. 1) (over)

61-31627

I. Usmanov, A. G.
II. Berezhnoi, A. N.
III. APL/JHU TG 230-T248
IV. Contract NOrd 7386

Office of Technical Services

Interaction of Molecular and Atomic Chlorine With
Metallic Silver, by V. S. Gurman, V. A. Vishnevskiy,
G. B. Sargayev, 5 pp.

RUSSIAN, per, Izvestiya Vysshikh Ucheb. Zaved, Khim
i Khim, Tekhnol, Vol III, No 1, 1960, pp 29-32.

CIA/FID IX-1027

NOT RELEASABLE TO FOREIGN NATIONALS

HTP/KT-3045

Sci - Chem

Jul 61

161,015

USIS INTERNAL USE ONLY

ON THE DEPENDENCE OF THE POSITIVE MINIMUM
ELECTRICAL CONDUCTIVITY ON THE PERMITTIVITY
OF THE MEDIUM, BY A. M. SHKODIN,

RUSSIAN, PER, IZ VYSSHIKH UCHEB ZAVED:
KHIM I KHIMICH TEKH, VOL 1, 1960, PP 36-40.

NLL RTS 1809

SC1 - ELECTRON

JUN 62

199,897

Kinetics of the Reaction of Ethylene
Oxide with Aniline, by N. N. Lebedev,
M. M. Smirnova.

RUSSIAN, per, Izvestiya VUZ Khimiya i
Khimicheskaya Tekhnologiya, Vol 3, No 1,
1960, pp 104-108.
ATS-14883R

Sci-Chem
Aug 66

309,203

DESTRUCTION OF THE SECONDARY LAYER OF THE
CELL WALL BY X BLUE STAIN FUNGI, BY
I. G. KRAPIVINA.

RUSSIAN, PER, IZ VYSSHIKH UCHEB ZAVED LES ZHUR,
VOL 111, NO 1, 1960, PP 130-133.

NLL M.4648

SCI - ENGR

JUN 62

199,159

8-512/50

(EX-1059)

Investigation of the Vapor Phase Nitration of
Cyclopentane Hydro-Carbons. III. Nitration of
Propylcyclopentane, by M. A. Feredreyeva, Ya. I.
Denisenko, S. S. Novikov, 6 pp.

RUSSIAN, per, 12 Vysshikh Ucheb Zaved SSSR,
Khim i Khim Tekh, Vol III, No 2, 1960, pp 312-315.

JPRS 3659

Sci - Chem

Aug 60

122,846

Fild, R. M., Chirikova, A. V. and others.
RESEARCH IN THE FIELD OF STEAM PHASE CATALYTIC SYNTHESIS OF VINYL ACETATE. [1961]
14p. 10 refs.

Order from RIS \$25.00

RIS D-774

Trans. of [Izvestiya Vysshih Uchebnykh Zavedenii].
Khimiya i Khimicheskaya Tekhnologiya (USSR) 1960
[v. 3] no. 2, p. 343-351.

DESCRIPTORS: *Vinyl radicals, *Acetates, Synthesis.
Catalysts, Steam, Chemical reactions.

(Chemistry--Organic, TT, v. 7, no. 10)

62-12417

- I. Fild, R. M.
- II. Chirikova, A. V.
- III. RIS D-774
- IV. Research Information Service, New York

Office of Technical Services

Capability of Intramolecular Combustion of
Inorganic Ammonium Salts, by A. A. CHIDLOVSKIY,
6 pp.

RUSSIAN, per, Iz Vysishikh Ucheb Zaved, Khimiya
i Khimi Tekh, Vol III, No 3, 1960, pp 405-407.
0670226

FTD
~~1000~~ MCL-848/1

Sci - Chem

Jul 61

761,360

Priselkov, Yu. A., Sapozhnikov, Yu. A. and others.
SOME PROBLEMS OF THE ACCURACY OF THE
EFFUSION METHOD FOR DETERMINING THE
SATURATED VAPOR PRESSURE OF INDIUM. [1962]
[7]p. 3 refs.

Order from OTS or SLA \$1.10

63-13398

Trans. of Izvestiya Vysshikh Uchebn[ykh] Zaved[enii].
Khim[iya] i Khimicheskaya Tekhnol[ogiya] (USSR)
[1960, v. 3] no. 3, p. 447-451.

DESCRIPTORS: *Indium, *Vapor pressure, Silver,
Heat, *Diffusion.

Silver and indium were used in ascertaining the condi-
tions required for employing high-frequency heating to
determine vapor pressure by Knudsen's method. An
improved effusion chamber was used in studying the
effect of the axial temperature gradient. It was found
that the vapor pressure within the effusion chamber is
(Physics-Solid State, TT, v. 10, no. 4) (over)

63-13398

- I. Priselkov, Yu. A.
- II. Sapozhnikov, Yu. A.
- III. Translations, New York

Office of Technical Services

Use of Radioactive Isotopes in the Study of the Diffusion Processes, Accompanied by Phase and Chemical Transformations, by A. D. Sotskov.

RUSSIAN, per, Izvestiya VUZ. Khim i Khim Tekhnol., No 3, 1960, pp 452-456.

*NTIS TT 72-52020

Aug 72

The Problem of the Volatility of Niobium
Oxides, by I. V. Golubtsov, et al.
RUSSIAN, per, Izv VUZ Khim i Khim Tekhnol,
No 4, 1960, pp 571-574.
NASA TT F-10,224

Sci-Chem
Aug 66

308,9212

Kinetics of Ammonia Synthesis on an Iron
Catalyst With Addition of Uranium, by
A. P. Zasorin, V. G. Khalabuzar, Ye. I.
Pizin.

RUSSIAN, per, Izvestiya Vysshikh Uchebnykh
Zavedeniy, Khimiya i Khim Tekhnologiya,
Vol III, No 4, 1960, pp 695-698.

* Dept of Interior

Sch - Chem

62-23272

Mar 62

Hydrogen Overvoltage on Porous Iron and Iron-Nickel Cathodes in Electrolysis of a Sodium Chloride Solution, by I. B. Barmashenko, L. A. Gorbachevskaya, 15 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved SSSR, Khim i Khimicheskaya Tekh, No 4, 1960, pp 699-706. 9673045

FTD-MT-61-134

Sci - Chem
15 Feb 62

182,614

Roskin, E. S.
COMPARATIVE DETERMINATION OF MOLECULAR
WEIGHTS OF ACRYLONITRILE BY THE METHODS
OF LIGHT SCATTERING AND VISCOSIMETRY. [961]
[7]p. 7 refs.
Order from OTS or SLA \$1.10

61-18677

Trans. of [vest[iva] Vysshikh Ucheb[nykh] Zavodov.
Khim[iya] [Khim[icheskaya] Tekhnol[ogiya] (USSR)
1960, v. 3, No. 4, p. 721-724.

DESCRIPTORS: *Acrylonitriles, *Molecular weight,
Determination, Viscosity, Viscosimeters, Light,
Scattering.

The determination of the weight average molecular
weight of a non-fractionated polyacrylonitrile by the
simpler viscosimetric method gave almost the same
results as the more complicated but more correct light
(Chemistry--Organic, TT, v. 6, no. 10) (over)

61-18677

I. Roskin, E. S.

HEL 1121 11-72 (1)
9077004

.276

Office of Technical Services

(DC-5880)

Inter-Vuz Scientific Conference, by N. P.
Opolovnikova, V. L. Kisclova, 2 5 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Khim 1
Khim Tekh, vol III, No 7, 1965, pp 771-775.

JPRS 8660

Sci - Chem
Aug 61

163,294

Starkov, S. P. and Spryskov, A. A.
 THE FORMATION OF SULFONES AND THE CORRE-
 SPONDING SULFONIC ACIDS DURING THE SULFONA-
 TION OF BENZENE. Pt. 52 of Study of the Sulfonation
 Reaction. [1961] 5p.
 Order from ATS \$8.35

ATS-40N50R

Trans. of Izvestiya Vysshikh Uchebnykh Zavedeniy.
 Khimiya i Khimicheskaya Tekhnologiya (USSR)
 1960, v. 3, no. 5, p. 868-871.

(Chemistry--Organic, TT, v. 5, no. 11)

61-22135

1. Benzenesulfonic acids--
Synthesis
2. Sulfones--Synthesis
3. Benzene--Chemical
reactions

1. Starkov, S. P.

II. Spryskov, A. A.

III. Title: Study...

IV. ATS-40N50R

V. Associated Technical
 Services, Inc.,
 East Orange, N. J.

ATS-RJ-2932
 15412

Official Title: Study...

Novikov, G. I., Makarenya, A. A. and others.
AN IMPROVED CIRCULATION METHOD FOR DE-
TERMINING DISSOCIATION PRESSURE. [1962] [10]p.
28 refs.

Order from DTIC or SLA \$1.10

63-13399

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii.
Khimiya i Khimicheskaya Tekhnologiya (USSR) 1960
[v. 3] no. 5, p. 952-956.

DESCRIPTION: *Gas analysis, Chemical equilibrium,
Thermodynamics, Thermal dissociation.

An improved circulation apparatus using semimicro-
chemical and thermoelectrometric methods of gas
analysis is described for investigating chemical
equilibria and determining the dissociation pressure of
binary compounds. Experiments were performed in-
cluding a study of the system: FeCl_2 (solid) + H_2 =
(Chemistry-Physical, IT, v. 10, no. 4) (over)

63-13399

I. Novikov, G. I.
II. Makarenya, A. A.
III. Translations, New York

Office of Technical Services

Ivanova, L. I.
SUR LA FORMATION DES ALUMINO-SILICATES
DANS LES MASSES DE FUSION DU SYSTEME
 $\text{Na}_3\text{AlF}_6 - \text{Al}_2\text{O}_3 - \text{SiO}_2$ (Formation of Aluminosilicates
in the Melts of the $\text{Na}_3\text{AlF}_6 - \text{Al}_2\text{O}_3 - \text{SiO}_2$ System). 11p.
16 refs. FR-1747.
Order from OTS, ETC or CNRS \$0.80 62-26521

Trans. in French of Izvestiya Vsesoyuznogo
Zavodnogo. Khimiya i Khimicheskaya Tekhnologiya 1960.
v. 3 [no. 5] p. 970-974.

DESCRIPTORS: *Aluminum compounds, *Silicates,
Cryolite, Oxides, Melting, Sodium compounds.

(Chemistry, TT, v. 10, no. 7)

62-26521

- I. Ivanova, L. I.
- II. FR-1747
- III. Centre National de la
Recherche Scientifique
(France)

Office of Technical Services

The Synthesis of Some C_{15} -- C_{19} Cyclohexane
Homologs Which Have Increased Volumetric
Heat of Combustion, by Ye. B. Sokolova,
M. P. Shebanova, 7 pp.

RUSSIAN, per, Iz Vysishikh Uchebnykh Zaved
Khim i Khimicheskaya Tekh, Vol. III, No 6,
1960, pp 1040-1044. 9664207

FID-TT-61-279

Sci - Chem

2 Mar 62

186,193

A Reaction of Orthocarboxyphenylsulphuric Acid,
by V. H. Klyuev, V. F. Borodkin.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Khim i
Khiz Tekh, Vol III, No 6, 1960, pp 1079-1081.

MLL RTS 2022

Sci - Chem

Aug 52

207,571

(SF-1879)

Conference on Kinetic Methods of Analysis, by V. P.
Vasil'yev, V. D. Korableva, K. B. Yatsimirskiy, 7 pp.

RUSSIAN, per, Iz Vysakhikh Ucheb Zaved SSSR, Khim i
Khim Tekh, Vol III, No 6, 1960, pp 1113-1116.

JPRS 4996

Sci - Chem

170,441

Oct 61

INVESTIGATION OF THE PROPERTIES OF MELTS OF THE
 $PbO-SiO_2$ SYSTEMS BY THE ELECTROMOTIVE FORCE METHOD
AT 1200°C, BY V. I. MINENKO, ET AL.

RUSSIAN, PER, IZ VYSSHIKH UCHEB ZAVED, KHIM I KHIM
TEKH, VOL IV, NO 1, 1961, PP 3-6.

NLL M. 6170

SCI - CHEM

OCT 62

213,005

POLYMORPHIC TRANSFORMATIONS IN ALLOYS OF
IRON WITH COBALT AND PALLADIUM, BY V. V. KOOPRINA,
A. T. GRIGORYEV.

RUSSIAN, PER, IZ VUZ, KHIM/TEKH, NO L, L96L,
PP 7-10.

TIL T 5264

SCI - MIN/MET

210,224

SEP 62

Kreshkov, A. P., Bykova, L. N., and Kazaryan, N. A.
THE DIFFERENTIAL TITRATION OF MIXTURES OF
STRONG, WEAK, AND VERY WEAK ACIDS IN METHYL
ETHYL KETONE MEDIA. [1962] up.
Order from ATS \$8.65 ATS-12P64R

Trans. of Izv[estiya] Vysshikh Uchebn[ykh] Zav[edeni].
Khim[iya] i Khim[icheskaya] Tekhnol[ogiya] (USSR)
1961, v. 4, no. 1, p. 20-24.

DESCRIPTORS: Methyl radicals, Ethyl radicals, *Ke-
tones, *Acids, Titration.

(Chemistry--Analytical, TT, v. 9, no. 2)

63-12017

- I. Kreshkov, A. P.
- II. Bykova, L. N.
- III. Kazaryan, N. A.
- IV. ATS-12P64R
- V. Associated Technical
Services, Inc.,
East Orange, N. J.

ATS RT-4057

Office of Technical Services

An Investigation of the Effect of Complex Formation
of Alcohols With Electrolytes on the Curves of
Physical Titration Up to the Turbidity Point, by
E. K. Nikitin, S. I. Spiridonova.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Khim i
Khimich Tekh, Vol IV, No 1, 1961, pp 33-37.

BISI 2571

Sci - Chem

Jul 62

list 1300

204, 824

Krasnov, K. S.
THE BOND ENERGY IN HALIDE MOLECULES OF
GROUP II AND AN IONIC MODEL. [1962] [8]p.
21 refs.
Order from OTS or SLA \$1.10 63-13578

Trans. of [Izv]estiya Vysshikh Uchebn[ykh] Zavedenii.
[Khimiya i Khimicheskaya Tekhnologiya] (USSR) 1961
[v. 4] no. 1, p. 38-44.

DESCRIPTORS: *Halides, *Group II elements, Energy,
*Chemical bonds, Molecules, Ionization, Electrical
conductance.

A calculation was made of the bond energy of molecules
of halides of Group II of the periodic system on the basis
of an ionic model with coefficients of repulsion calcu-
lated from the effective charges of the ions. For salts
of BeHal_2 , CaHal_2 , and BaHal_2 the deviations of the
(Chemistry--Physical, TT, v. 9, no. 12) (over)

63-13578

I. Krasnov, K. S.
II. Translations, New York

Office of Technical Services

62-34321

Kuznetsov, M. D. and Oratovskii, V. I.
RATE OF CHEMISORPTION IN A VENTURI-TYPE
APPARATUS. *ASH* 62, 4p. 2 refs.
Order from ICE 16 v. 7, no. 2, \$15.00/year

Trans. of Izvestiya Vysshikh Uchebnykh Zavedeni.
Khimiya i Khimicheskaya Tekhnologiya (USSR)
1961, v. 4, no. 1, p. 42-[147].
Another trans. is available from ATS \$9.70 as
ATS-83N7R (1961), 7p.

DESCRIPTORS: *Chemical engineering, *Venturiflow,
Towers (Chemistry), *Chemisorption, Velocity,
Equation, *Absorption, *Adsorption.

(Engineering--Chemical, TI, v. 8, no. 11)

- I. Kuznetsov, M. D.
- II. Oratovskii, V. I.
- III. International Chemical
Engineering, New York

Office of Technical Services

HEAT TRANSFER FROM A GRANULAR LAYER TO A TUBE
WALL IN THE PRESENCE OF INTERNAL HEAT SOURCES,
BY V. A. RASTATURIN, 6 PP.

RUSSIAN, PER, IZ VYSSHIKH UCHEB ZAVED SSSR,
KHIM I KHIMICHESKAYA TEKH, NO 1, 1961, PP 138-
141. 9677358

FTD-TT-62-111

SCI-PHYS
10 JUL 62

202,256

Kuznetsov, M. D. and Oratovskii, V. I.
THE RATE OF CHEMISORPTION IN A VENTURI-
TYPE APPARATUS. [1961] 7p.
Order from ATS \$9.70 ATS-83N57R

Trans. of Izvestiya Vysshikh Uchebnykh
Zavedenii. Khim[iya] i Khim[icheskaya] Tekhnol[ogiya]
(USSR) 1961, v. 4, no. 1, p. 142-147.

DESCRIPTORS: *Absorption, *Adsorption, Velocity,
Measurement, *Venturi tubes.

(Chemistry--Physical, T1, v. 7, no. 6)

62-12356

- I. Title: Chemisorption
- I. Kuznetsov, M. D.
- II. Oratovskii, V. I.
- III. ATS-83N57R
- IV. Associated Technical
Services, Inc., East
Orange, N. J.

ATS NT-3936

Office of Technical Services

Gorbachev, S. V. and Sytilin, M. S.
ÉTUDE DE LA CINÉTIQUE DE LA RÉACTION
D'OXYDATION DE L'HYDROQUINONE PAR L'INTER-
MÉDIAIRE DU "REDOKYSTAT" (Issledovanie kinetiki
reaktsii oksidatsii gidrokhinona s pomoishch'yu
redokristala) (Kinetics of the oxidation of hydroquinone
with the help of a redoxstat). Sp. (foreign text
included). 3 refs FR-2575.
Order from OTS, HTC or CNRS \$0.80 62-26423

Trans. in French of Izvestiya Vsesoyuznogo Nauchno-
Issledovatel'skogo Tsentra Khimicheskoy Tekhnologii
(USSR) 1961, v. 4, no. 1, p. 133-137.

DESCRIPTORS: *Oxidation, Reaction kinetics.

(Chemistry--Physical, TT, v. 10, no. 10)

62-26423

1. Title: Hydroquinol
- I. Gorbachev, S. V.
- II. Sytilin, M. S.
- III. F/R-2575
- IV. Centre National de la
Recherche Scientifique

Office of Technical Services

(SF-1879)

On the Strength of Liquid Under Hydrostatic
Tension, by L. A. Gromov, M. K. Baransyev,
3 pp.

RUSSIAN, per, Iz Vysokikh Ucheb Zaved,
Khim i Khim Tekh, Vol IV, No 2, 1961,
pp 320-321.

JPRS 13149

Sci - Chem
Mar 62

189,331

(SF-1879/4)

11-Union Inter-VUZ Conference on the Theory and
Practice of Rectification in the Chemical and the
Food Industries, by P. Tsygankov, 11 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved SSSR, Khim
Khim Tekh, Vol. IV, No 2, 1961, pp 328-332.

JPRS 4986

172,848

SSR

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at 61

S-40/63

On the Problem of Corrosion Resistance Fe-Cr and
Fe-Mn Solid Solutions, by I. Kh. Varivoda.
(SF-2463)

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Khim i
Khim Tekh, Vol V, No 2, 1962, pp 264-266.

*JPRS

Sci - Chem

15 Jan 63

Selivanova, N. M., and Pakhorukov, N. I.
ON THE HEATS OF SOLUTION OF SELENIOUS
ACID. [1962] [6] p. 8 refs.
Order from OTS or SIA \$1.10 63-13422

Trans. of Izv[estiya] Vysshikh Uchebn[ykh] Zavedeni.
[Khimiya i Khimicheskaya Tekhnologiya] (USSR) 1961
[v. 4] no. 3, p. 355-358.

DESCRIPTORS: *Heat of solution, Specific heat,
*Selenious acid, Selenium compounds, Dioxides,
Thermochemistry.

The purpose of the investigation was the determination
of the integral heats of solution in water of selenious
acid in solutions of various concentrations, and verifi-
cation of the values of the heat of solution in water of
selenium dioxide at a dilution of 1:200. (Author)

(Chemistry--Physical, TT, v. 10, no. 4)

63-13422

I. Selivanova, N. M.
II. Pakhorukov, N. I.
III. Translations, New York

Office of Technical Services

Gordievskii, A. V. and Ustyugov, G. P.
PHOTOMETRIC DETERMINATION OF BORON IN
MAGNESIUM ALLOYS. [1963] 5p.
Order from ATS \$6.50

ATS-85Q69R

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii
Khimiya i Khimicheskaya Tekhnologiya (USSR) 1961,
v. 4, no. 3, p. 366-369.

DESCRIPTORS: *Boron, *Magnesium alloys,
*Photometers.

(Chemistry--Analytical, TT, v. 10, no. 3)

63-17481

- I. Gordievskii, A. V.
- II. Ustyugov, G. P.
- III. ATS-85Q69R
- IV. Associated Technical
Services, Inc.,
East Orange, N. J.

ATS 85-4129

Office of Technical Services

Alkylation of Aromatic Amines With Mannich
Bases, by G. I. Denis.

RUSSIAN, per, Izvestiya Vysshikh Uchebnykh
Zavedeni. Khimiya i Khimicheskaya Tekhnologiya.

Vol 4, No 3, 1961, pp 426-428.

ITC-71-10695-07C

Nov 71

Heat Transfer at Ribbed Tubular Surfaces Subject
to Lengthwise Flow, by N. N. Norkin, et al.

RUSSIAN, ~~per~~ In Vysshikh Ucheb Zaved Khim i Khim
Tekh, No 3, 1961, pp 518-519.

U.K. Atomic Energy Authority
Risley, TRG Inf Ser 163(W)

Sci - Chem
Jul 62

202,113

Fedorov, P. I., and Shakhova, M. N.
THE SATURATION VAPOR PRESSURE OF CUPROUS
BROMIDE AND CHLORIDE. [1962] 5p. 14 refs.
Order from OTS or SLA \$1.10 63-13715

Trans. of Izvestiya Vysshikh Uchebnykh Zavedeni.
Khimiya (Khimicheskaya Tekhnologiya (USSR) 1961
(v. 4) no. 4, p. 550-553.

DESCRIPTORS: *Bromides, *Chlorides, *Copper com-
pounds, *Vapor pressure, Molecular association.

The boiling-point method and the saturation method were
used to determine the saturation vapor pressure of
copper bromide in the 400° to 800°C range. Comparison
of the experimental data obtained by these two methods
indicates that cuprous bromide is present in the vapor
as the trimer Cu_3Br_3 at temperatures above 450°C.
Below this temperature further association of the
(Chemistry--Physical, TT, v. 10, no. 3) (vvc:)

63-13715

I. Fedorov, P. I.
II. Shakhova, M. N.
III. Translations, New York

Office of Technical Services

Kudin, T. I. and Vlasjuk, M. A.
THE USE OF VIBRATING MILL FOR THE PRO-
DUCTION OF RONGALITE (Primeneniye Vibromel'ntsey
dlya Proizvodstva Rongalita). [1962] [8]p. (foreign text
included) 13 refs.

Order from OTS or SLA \$1.10

62-20237

Trans. of Izvestiya Vysshikh Uchebn[ykh] Zavedeni.
Khim[iya] i Khimicheskiye Tekhnologii (USSR)
1961 [v. 4] no. 4, p. 636-638.

DESCRIPTORS: *Sulfites, Decomposition, Chemical
reactions, Reaction Kinetics, Vibrators (Mechanical),
Production.

It has been established that metallic iron has no effect
on the reduction rate of sodium bisulfite by zinc powder
in the case of operating conditions of equipment such
as kettles with agitators. Production of rongalite in
(Engineering--Chemical, TT, v. 10, no. 7) (over)

62-20237

1. Title: Rongalite
I. Kudin, T. I.
II. Vlasjuk, M. A.

Office of Technical Services

Kunin, T. I. and Epifanov, V. S.
ON THE PROBLEM OF THE REACTION OF SODA
WITH SULFUR DIOXIDE IN A FLUIDIZED BED (K
Voprosu o Vzaimodelstvii Sodnykh i Sernistym Angidri-
dom v Kipyashchem Sloe). [1962] [15]p. (foreign text
included) 11 refs.

Order from OIS or SLA \$1.60

63-10751

Trans. of Izv[estiya] Vysshikh Uchebn[ykh]
Zavedenii. Khim[iya] i Khim[icheskaya] Tekhnol[ogiya]
(USSR) 1961, v. 4 [no. 6] p. 992-997.

DESCRIPTORS: *Fluidized solids, *Sodium compounds,
Oxides, *Sulfur compounds, Dioxides, Chemical re-
actions, Adsorption, Water vapor, Temperature.

The influence of various factors on the rate of the
reaction between soda and sulfur dioxide under
fluidized bed conditions was investigated. The concen-
(Engineering-Chemical, TT, v. 10, no. 1) (over)

63-10751

I. Kunin, T. I.
II. Epifanov, V. S.

Office of Technical Services

Method of Calculating the pH Values of Aqueous
Solutions of Strong Acids and Bases at High
Temperatures, by O. Martynova, E. Lingulina.
RUSSIAN, per, Iz. Vys. Ucheb. Kavod. SSR. Khim i
Khim. Tekh. Vol. 4, 1961, pp 1041-1042.
CSIRO/No. 6871

Sci -
July 1961

354-450

The Use of Tritium for the Determination of the
Relative Contents of the Abstraction Rates of the
Hydrogen Atoms in Organic Compounds. The Compara-
tive Reactivity of Carbon-Hydrogen Bonds of
Hydrocarbons in Radical Reactions, by V. L. Antonovsky,

RUSSIAN, per, Iz Vysshikh Ucheb Zaved Khim i Khim
Tekh, No 1, 1962, pp 94-100.

TIL/T5370

Sci - Chem

May 63

230,715

Bulygin, B. M., Pobedinskii, S. N., and Kur'mina,
L. L.
ANODIC SOLUTION OF MAGNESIUM IN OXIDIZING
ELECTROLYTES. [1963] [8p] 7 refs
C. E. Trans. 2945

Order from OTS, SLA, or ETC \$1.10 TT-63-24091

Trans. of Izvestiya Vsesoyuznogo Uchebnoy Zavedeni.
Khimiya i Khimicheskaya Tekhnologiya (USSR)
1962, v. 5 (no. 1) p. 120-125. (Abstract available)

DESCRIPTORS: Electrolytes, Oxidation, *Magnesium
compounds, Solutions, Anodes, *Electrochemistry.

Galvanic sources of electricity can function with a
magnesium anode when the electrolyte is a solution of
a pure oxidizing agent. In these circumstances, as a
result of passivation of the surface by a protective,
oxide film, the consumption of the metal and evolution
(Chemistry-Physical, TT, v. 11, no. 3) (over)

7
TT-63-24091

- I. Bulygin, B. M.
- II. Pobedinskii, S. N.
- III. Kur'mina, L. L.
- IV. CE Trans-2945
- V. Central Electricity
Generating Board
(Gr. Brit.)

Office of Technical Services

S-40/63

On the Problem of Corrosion Resistance Fe-Cr and
Fe-Ni Solid Solutions, by I. Kh. Varivoda. 4 pp.
(SF-2468)

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Khim i
Khim Tekh, Vol V, No 2, 1962, pp 204-206.

JPES/Special

Sci -Chem
15 Jan 63

201.663

Certain Regularities in the Plasticization of
Polyvinyl Chloride with Tetrahydrophthalate
Oxides, by V. A. Voskresenskii, S. S. Shakirzyanova,
V. A. Byl'ev, 5pp
RUSSIAN, per, Izvestiya Vysshikh Uchebnykh Zavedenii
Khimiya i Khimicheskaya Tekhnologiya, Vol 5,
1962, No 2, pp 322-325
SLA TT-6-16283

Sci - Mat
June 67

327,503

THE INFLUENCE OF HEAT TREATMENT BY A CURRENT
OF HIGH FREQUENCY ON THE CORROSION OF WELDED
JOINTS OF X 16H18N9T STEEL, BY V. A. SUPRUNOV,
V. N. KISEL'NIKOV, 8 PP.

RUSSIAN, PER, IZVESTIYA VYSSHIKH UCHEBNYKH
ZAVEDENIY SSSR, KHIMIYA I KHIMICHESKAYA
TEKHNOLOGIYA, VOL V, NO 2, 1962, PP 336-339.

JPRS 17356

SCI - CHEM

JAN 63

221,033

Effect of the Enthalpy Criterion on Heat-Exchange
in Condensation of Steam From a Steam-Gas Mixture,
by I. A. Komarov.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Khim i Khim
Tekh, Vol V, No 3, 1962, pp 496-501.

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NAC Ref: 909194 (WH Trans 193)

*KAZA

Risley

TT-64-23501

Tr No 3

332

Sci - Phys

5 Mar 63

Arzumanov, A. O.

THE LACK OF FOUNDATION FOR THE THEORY OF
COVALENT CHEMICAL BONDING [AND] LETTERS
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Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii.
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DESCRIPTORS: Molecular structure, *Chemical bonds,
Theory, Atomic orbitals, Valence, Magnetic fields,
*Germanium compounds, Hydroxides, Solubility.

The data discussed demonstrate that the theory of covalent bonding is totally unfounded. A simple chemical bond should be regarded as being of the same homo-
(Chemistry, TT, v. 10, no. 3)

(over)

63-11186

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DESCRIPTORS: Chemical engineering. *Viscosity,
Heat transfer, Liquid metals, *Thermal conductivity,
Organic compounds.

(Physics--Thermodynamics, TT, v. 10, no. 7)

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